

# *PRICE AND GESS*

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## PRELIMINARY AMENDMENT

**Inventor(s): Kazuhiro Yamada et al.**

**Title: GRAY-SCALE IMAGE DISPLAY DEVICE  
THAT CAN REDUCE POWER  
CONSUMPTION WHEN WRITING DATA**

**Attorney's  
Docket No.: NAK1-BO60**

**EXPRESS MAIL LABEL NO. EL 852659002 US**

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:

Kazuhiro Yamada et al.

Serial No.:

Filed:

For: GRAY-SCALE IMAGE DISPLAY DEVICE  
THAT CAN REDUCE POWER CONSUMPTION  
WHEN WRITING DATA

Examiner:

Group Art Unit:

Irvine, CA 92614

April 23, 2001

**PRELIMINARY AMENDMENT**

Assistant Commissioner for Patents  
Washington, D.C. 20231

Dear Sir:

Prior to an examination on the merits of the above-identified application, please enter the following amendments:

**IN THE CLAIMS:**

Please amend the claims as follows:

Claim 14, line 1, delete "one of Claims 1, 2, 3, 4, 5, and 13" and insert --Claim 1--;

Claim 15, line 1, delete "one of Claims 1, 2, 3, 4, 5, and 13" and insert --Claim 1--;

Please add the following newly-drafted Claims 20-29.

1        20. The image display of Claim 2, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1        21. The image display of Claim 3, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1        22. The image display of Claim 4, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1        23. The image display of Claim 5, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1        24. The image display of Claim 13, wherein the image changing unit changes the part  
2 of the sub-field image data or the sub-field image data, only when the predetermined sub-field  
3 period has a smaller luminance weight than a predetermined value.

1        25. The image display device of Claim 2, wherein the image changing unit changes  
2 the part of the sub-field image data or the sub-field image data, only when an amount of power  
3 required to drive the first electrode is greater than a predetermined value.

1        26. The image display device of Claim 3, wherein the image changing unit changes  
2 the part of the sub-field image data or the sub-field image data, only when an amount of power  
3 required to drive the first electrode is greater than a predetermined value.

1        27. The image display device of Claim 4, wherein the image changing unit changes  
2 the part of the sub-field image data or the sub-field image data, only when an amount of power  
3 required to drive the first electrode is greater than a predetermined value.

1        28. The image display device of Claim 5, wherein the image changing unit changes  
2 the part of the sub-field image data or the sub-field image data, only when an amount of power  
3 required to drive the first electrode is greater than a predetermined value.

1        29. The image display device of Claim 13, wherein the image changing unit changes  
2 the part of the sub-field image data or the sub-field image data, only when an amount of power  
3 required to drive the first electrode is greater than a predetermined value.

## REMARKS

The amendments to the claims are to remove multiple dependencies.

Newly drafted Claims 20-29 are within the scope of the original invention and do not add any new subject matter.

If the Examiner believes that a telephone interview will help further the prosecution of this case, he is respectfully requested to contact the undersigned attorney at the listed telephone number.

Very truly yours,

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**VERSION WITH MARKINGS TO SHOW CHANGES MADE**

The claims have been amended as follows:

1           14. (Amended) The image display device of [one of Claims, 1, 2, 3, 4, 5, and 13]

2    Claim 1,

3           wherein the image changing unit changes the part of the sub-field image data or  
4    the sub-field image data, only when the predetermined sub-field period has a smaller luminance  
5    weight than a predetermined value.

1           15. (Amended) The image display device of [one of Claims, 1, 2, 3, 4, 5, and 13]

2    Claim 1,

3           wherein the image changing unit changes the part of the sub-field image data or  
4    the sub-field image data, only when an amount of power required to drive the first electrode is  
5    greater than a predetermined value.

New Claims 20-29 have been added.